

**Amendments to the Claims:**

1. (currently amended) A computer readable medium having computer-executable instructions, comprising,  
  
calculating the sharp points of a digital ink file;  
  
defining segments between the sharp points by mathematical expressions, wherein  
defining the segments between the sharp points by mathematical expressions comprises  
subdividing segments that exceed a threshold into subsegments, and defining the subsegments by  
mathematical expressions, and wherein the threshold comprises a segment having a turn angle  
greater than a defined limit of  $2\pi$ ; and  
  
storing information about the sharp points and the mathematical expressions as a backbone spline of the digital ink file.
2. (original) The computer readable medium of claim 1, having further computer-executable instructions comprising combining the backbone spline with information about the digital ink file to create a contour curve for the digital ink file.
3. (original) The computer readable medium of claim 1, wherein the information about the digital ink file comprises thickness information.
4. (original) The computer readable medium of claim 3, having further computer-executable instructions comprising denoising the digital ink file prior to combining the backbone spline with the thickness information.

5. (original) The computer readable medium of claim 1, having further computer-executable instructions comprising denoising the digital ink file prior to combining the backbone spline with the information about the digital ink file.

6. (original) The computer readable medium of claim 1, wherein the sharp points comprise points in the digital ink file that deviate the most from straight lines.

7. (original) The computer readable medium of claim 1, wherein the sharp points comprise points at which curvature reverses.

8. (original) The computer readable medium of claim 1, wherein the digital ink file comprises a raw data ink trace.

9-11. (canceled).

12. (currently amended) The computer readable medium of ~~claim 10~~ claim 1, wherein the threshold further comprises a defined error tolerance for the mathematical expression.

13. (currently amended) The computer readable medium of ~~claim 9~~ claim 1, wherein the threshold comprises a defined error tolerance for the mathematical expression.

14. (original) The computer readable medium of claim 1, having further computer-executable instructions comprising:

combining the backbone spline with information about the digital ink file to create a contour curve for the digital ink file; and

displaying the contour curve.

15. (original) The computer readable medium of claim 14, wherein displaying the contour curve comprises separating the contour curve into a plurality of straight segments, and rendering the plurality of straight segments.

16. (original) The computer readable medium of claim 15, wherein displaying the contour curve further comprises applying an antialiasing effect to each of the straight segments, wherein the antialiasing effect comprises an antialiasing filter that filters edges of an image more than the center of the image.

17. (original) The computer readable medium of claim 15, wherein displaying the contour curve further comprises aligning the ends of the straight segments by averaging pixels located at the ends of the segments.

18. (currently amended) A computer system comprising:  
an antialiasing component that filters edges of an image more than the center of the

image, wherein the antialiasing component utilizes a plurality of filters that are applied to each scan line of the image, the plurality of filters comprising:

at least one central filter, configured to filter the image adjacent to the center of the image, and that filters at a first threshold; and

at least one outer filter, configured to filter the image adjacent to an edge of the image, and that filters at a second threshold higher than the first threshold; and

wherein each of the filters have conic sections, and each have the same scant line, but the outer filters are decreased in size by a decrease factor.

19. (original) The computer system of claim 18, wherein the antialiasing component filters an image based upon human perception characteristics.

20. (original) The computer system of claim 19, wherein the human perception characteristics comprises contrast sensitivity.

21. (original) The computer system of claim 18, wherein the antialiasing component utilizes a GUPTA-SPROULL algorithm to provide the filtering effect.

22. (Canceled).

23. (currently amended) The computer system of ~~claim 22~~ claim 18, wherein the second threshold is set based upon human perception characteristics.

24. (original) The computer system of claim 23, wherein the human perception characteristics comprise contrast sensitivity.

25. (currently amended) The computer system of ~~claim 22~~ claim 18, wherein the number of central filters is one, and the number of outer filters is two, and the outer filters are arranged on opposite sides of the outer filter and so that each outer filter is adjacent to a different edge of the image.

26-33. (canceled).